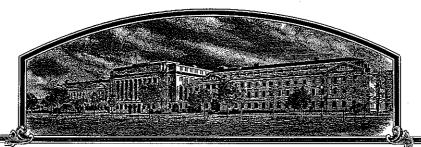
No.



# THE CONTRED STRAILES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Monsanto Technology I. I. C.

There has been presented to the

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE GRANT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CRITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'I113752'

In Vestimonn Murror, I have hereunto set my hand and caused the seal of the Plant Unriety Frotestion Office to be affixed at the City of Washington, D.C. this twenty-ninth day of April, the year two thousand and eight.

Attest:

Olm Zunger

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agricults

U.S. DEPARTMENT OF AG AGRICULTURAL MARKETII SCIENCE AND TECHNOLOGY - PLANT VAF	NG SERVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a): the Paperwork Reduction Act (PRA) of 1995.			
APPLICATION FOR PLANT VARIETY PR (Instructions and information collection but	OTECTION CERTIFICATE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER	· · · · · · · · · · · · · · · · · · ·	2. TEMPORARY DESIGNATION O	OR 3. VARIETY NAME		
Monsanto Technology L	.L.C.	None	1113752		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and	ZIP Code, and Country)	5. TELEPHONE (include area code	FOR OFFICIAL USE ONLY		
800 N. Lindbergh Blvd.		(815) 758-9281	PVPO NUMBER		
Créve Coeur, MO 63167	,	6. FAX (include area code)	- Onnenada		
U.S.A.		(81E) 7E9 3447	200500146		
		(815) 758-3117	FILING DATE		
<ol> <li>IF THE ÖWNER NAMED IS NOT A "PERSON", GIVE FOR ORGANIZATION (corporation, partnership, association, etc.</li> </ol>		9. DATE OF INCORPORATION	Feb. 15,2005		
Corporation	Delaware	August 27, 1999	1 10, 10, accs		
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE	S) TO SERVE IN THIS APPLICATION. (F	irst person listed will receive all papers)	F FILING AND EXAMINATION FEES:		
		4	E \$ 3652.00		
Timothy R. Kain	Mich	ael J. Roth	2/15/05		
. 8350 Minnegan Road			E CERTIFICATION FEE:		
Waterman, IL 60556		N. Lindbergh Blvd.	\$ 7/08.00		
U.S.A.	U.S.A	e Coeur, MO 63167	V V		
<u> </u>	۷.۶.۶	<b>`</b> .	E DATE 2//2/2008		
11. TELEPHONE (Include area code)	12. FAX (Include area code)	13. E-MAIL	14. CROP KIND (Common Name)		
(815) 758-9281	81 (815) 758-3117 <u>trk</u>		Corn, Field		
15. GENUS AND SPECIES NAME OF CROP	<u> </u>	16. FAMILY NAME (Botanical)	17. IS THE VARIETY A FIRST GENERATION HYBRID?		
Zea mays		Graminae	☐ YES X NO		
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT S (Follow instructions on reverse)	SUBMITTED		T SEED OF THIS VARIETY BE SOLD AS A CLASS OF 83(a) of the Plant Variety Protection Act)		
a. X Exhibit A. Origin and Breeding History of the Varie	ty	☐ YES (If "yes", answer items	.∵ .∵ .∵		
b. X Exhibit B. Statement of Distinctness		20. DOES THE OWNER SPECIFY THAT			
c. X Exhibit C. Objective Description of Variety		VARIETY BE LIMITED AS TO NUMB	BER OF CLASSES?		
d.   Exhibit D. Additional Description of the Variety (Op	tional)	IF YES, WHICH CLASSES?	FOUNDATION   REGISTERED   CERTIFIED		
e. X Exhibit E. Statement of the Basis of the Owner's O	wnership	21. DOES THE OWNER SPECIFY THAT			
f. X Voucher Sample (2,500 viable untreated seeds or, verification that tissue culture will be deposited and repositor)		VARIETY BE LIMITED AS TO NUMB IF YES, SPECIFY THE NUMBER 1,2			
g. X Filing and Examination Fee (\$3,652), made payable	a to "Treasurer of the United	☐ FOUNDATION ☐ REGISTE	RED CERTIFIED		
States" (Mail to the Plant Variety Protection Office)		(If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATE FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRAN- OR		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?			
OTHER COUNTRIES?		X YES NO			
X YES  IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE	NO , DISPOSITION, TRANSFER, OR	IF YES, PLEASE GIVE COUNTRY, D. REFERENCE NUMBER. (Please use	ATE OF FILING OR ISSUANCE AND ASSIGNED space indicated on reverse.)		
USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Ple	ase use space indicated on reverse.)				
The owners declare that a viable sample of basic seed of t for a tuber propagated variety a tissue culture will be depor	he variety has been furnished with applica	ution and will be replenished upon request in	accordance with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this sexually and is entitled to protection under the provisions of Section	y reproduced or tuber propagated plant va		distinct, uniform, and stable as required in Section 42,		
Owner(s) is(are) informed that false representation herein of	can jeopardize protection and result in per	nalties,	,		
SIGNATURE OF OWNER / / /		SIGNATURE OF OWNER			
mothy K. ( ?					
NAME (Please print or type)		NAME (Please print or type)			
Timothy R. Kain					
APACITY OR TITLE Patent Scientist	DATE 2/11/05	CAPACITY OR TITLE	DATE		

#### INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

> **Plant Variety Protection Office** Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

#### ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:

  - (1) identify these varieties and state all differences objectively;(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety 22. CONTINUED FROM FRONT (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Parent of a hybrid sold in the U.S. - March 2004

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

U.S. Patent Application No. 10/820,222 - filed April 6, 2004

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/isg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the lime for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer. \$7-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000.





### **EXHIBIT A**

### Origin and Breeding History I113752

Corn Variety I113752 was selected for greater plant health, improved root strength, improved grain quality, improved leaf disease tolerance and greater combining ability.

Summer 1997	The inbred line 01HGI4 (a proprietary DEKALB Genetics Corporation inbred) was crossed to the inbred line LH283 (a HOLDEN Foundation Seed Company inbred) in nursery rows 97:9158 and 97:9102. (North Liberty, lowa)
Winter 1997-98	The S0 seed was grown and self-pollinated in nursery row 97R.22. (Chile)
Summer 1998	The S1 seed was grown and self-pollinated in nursery rows 98:1513 thru 98:1530. 15 ears were selected. (Marshall, MO)
Summer 1999	S2 ears were grown ear-to-row and self-pollinated. 1 ear was selected in nursery row 99:12913. (Marshall, MO)
Winter 1999-00	S3 ear was grown ear-to-row and self-pollinated. In nursery row 99PR:1628. 5 ears were selected. (Puerto Rico)
Summer 2000	S4 ears were grown ear-to-row and self-pollinated. 3 ears from nursery row 00MM7:7274 were selected and designated as coded corn variety I113752. (Marshall, MO)
Winter 2000-01	S5 ears were grown ear-to-row and self-pollinated. 10 ears from nursery row MX-00-LS:2058 were selected. (Mexico)
Summer 2001	S6 ears were grown ear-to-row and self-pollinated. 20 ears were selected from nursery row 01M13:13321-13340. (Marshall, MO)

### Statement of Stability and Uniformity

Corn variety l113752 was coded in 2000 and has been reproduced and judged stable for the past three generations by self-pollination. Corn variety l113752 is uniform for all traits observed.

### Statement of Variants

Corn Variety I113752 shows no variants other than that would be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

# EXHIBIT B (revised)

### **Statement of Distinctness**

Monsanto Technology LLC believes that Corn Variety I113752 is most similar to Corn Variety 01HGI4, a proprietary corn variety of Monsanto Technology LLC. (Certificate No. 200000293).

Corn Variety I113752 differ from Corn Variety 01HGI4 at the following traits:

2002

Maniak	T	· _ · · · · · · · · · · · · · · · · · ·	
Variety	Leaf Angle	Tassel Branch Angle	Tassel Length
	(degrees)		
		(degrees)	(cm)
l113752	32.5	16.5	32.1
	Std Dev = 2.4, N=10	Std Dev = 0.8, N=10	Std Dev = 1.8, N=10
1216556	20.6	8.0	37.8
	Std Dev = 1.4, N=10	Std Dev = 2.2, N=10	Std Dev = 0.3, N=10
P_Val	0.00	0.00	0.00
Signif.	**	**	**

2003

Variety	Leaf Angle	Tassel Branch Angle	Tassel Length
	(degrees)	(degrees)	(cm)
I113752	37.5	23.5	31.5
	Std Dev = 3.5, N=10	Std Dev = 4.1, N=10	Std Dev = 1.6, N=10
I216556	19.5	8.5	40.2
	Std Dev = 0.6, N=10	Std Dev = 3.4, N=10	Std Dev = 2.4, N=10
P_Vai	0.00	0.00	0.00
Signif.	**	**	**

Significance levels are indicated as: + = 10%, \* = 5 %, \*\* = 1%

Corn Variety I113752 has a wider leaf angle, a wider tassel branch angle and a shorter tassel length then comparative corn variety 01HGI4.

## EXHIBIT B (revised)

### Description of Experimental Design

The corn varieties I113752, I216556 and MO17 were grown at the Waterman, IL observation nursery in years 2002-2003. The varieties were planted in 2 row plots with 15 plants per row in each of the three years. Trait data were collected on 10 random representative plants for most traits from each 2 row plot. Data on qualitative traits are usually collected on 10 plants from each 2 row plot. For Exhibit C all data were pooled and reported as means across the years for subject variety and the standard variety with standard deviation. The varieties are randomly planted in a 4.5 acre observation nursery which is located within a larger 18 acre field. Besides the observation nursery, this field consists of a research seed increase nursery and an IP seed inventory nursery. The location of each of these individual nurseries is rotated each year to a different location within the 18 acre field. Therefore subject inbreds are not planted adjacent to comparative or standard varieties and may be located in different areas of the larger field each year, therefore being influenced by spacial differences within the field. Growing conditions within the field are not uniform as there are some slight topographical variations such as lower areas which may accumulate and retain water or higher areas which are usually drier. The field is tiled and therefore a variety maybe planted close to a tile line while a comparative variety maybe planted further away and in a low spot within the field. Temporal varieties can exist as weather conditions from year to year can vary as well as planting dates can vary from year to year based on weather conditions. Weather conditions each year can vary the maturity rate of the varieties due to either favorable or unfavorable growing conditions.

Trait variability is not observed for each variety within its own test plot-plants are usually uniform and data are collected on the "most" representative plants- variability occurs due to spacial location of the test plot for that variety from year to year and to the temporal variation of weather conditions from year to year during the 2-3 years data are collected.

### Waterman Research Station Weather Data 2002-2003

Date	Average	Ave. Monthly	Ave. Monthly	Ave. Monthly	Ave. Monthly
	Precip.	Temp – Max.	Temp-Min	Rel. Humid	Rel. Humid –
	(mm)	(F°)	(F°)	Max (%)	Min (%)
June 2002	5.3	81.3	60.4	90.7	47.7
July 2002	1.5	87.0	64.9	93.2	48.3
August 2002	5.7	83.1	61.0	96.0	51.8
Sept. 2002	1.5	79.4	52.6	95.0	42.7
June 2003	2.0	75.7	55.7	-	-
July 2003	6.4	82.2	62.2	-	-
August 2003	2.6	83.5	63.5	-	-
Sept 2003	2.6	72.9	52.9	-	-

5

### United States Department of Agriculture, Agricultural Marketing Service Science Division, Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY CORN (Zea mays L.)

Name of Applicant(s)			<del></del>			
Monsanto Technology L.L.C.		Variety Seed So	urce	Variety		mporary Designation 3752
Address (Street & No., or R.F.D. No., City, State, Zip Co	ode and Country)	)		FOR OFFI	CIAL USE	
800 No. Lindbergh Blvd. Creve Coeur, MO U.S.A.				PVPO Num	2005	00146
Place the appropriate number that describes the varietal whole numbers by adding leading zeroes if necessary. Com Traits designated by a '*' are considered necessary for						ow. Right justify ariety description.
02=Medium Green 07=Yellow 03=Dark Green 08=Yellow-Orange 04=Very Dark Green 09=Salmon	to describe al 11=Pink 12=Light Red 13=Cherry Red 14=Red 15=Red & White	16=Pale   17=Purplo 18=Color: 19=White	Purple e less	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	21≒Buff 22=Tan 23≕Brown 24=Bronze	ed (Describe)
STANDARD INBRED CHOICES(Use the <b>most similar</b> (in backgrou Yellow Dent Families: Family Members	Yellow D	of these to malent (Unrelated): 09, ND246,	ke compa	Sweet	Corn:	7-out trial data): 25, P39, 2132
B14 CM105, A632, B64, B68 B37 B37, B76, H84 B73 N192, A679, B73, NC268 C103 Mo17, Va102, Va35, A682 Oh43 A619, MS71, H99, Va26 WF9 W64A, A554, A654, Pa91		153R		Pipec	33, 4722, H	IP301, HP7211
<ul> <li>TYPE: (describe intermediate types in Comments section</li> <li>2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Orname</li> </ul>		n	Stand 2	ard Inbre	ed Name MO17	
2. REGION WHERE DEVELOPED IN THE U.S.A.:  * 2 1=Northwest 2=Northcentral 3=Northeast 4=Souther 6=Southwest 7=Other	ast 5=Southcen	tral	Standa 2	ard Seed	Source NCRI	PS_
3. MATURITY (In Region Best Adaptability; show Heat Unit section):  DAYS HEAT UNITS  * _ 8 1 1 5 2 9.5 From emergence to 50%		,	DAYS 0 7	9	HEAT UNI 1 6 8	0.0
* _ 8 2 1 5 5 8.0 From emergence to 50%	of plants in po	ollen	0 7	5 .	1 5 8	2. 0
0 From 10% to 90% poller						
(*) From 50% silk to optim	•	-		_	<del>-</del>	
From 50% silk to harve	est at 25% moist	ture				- <b>-</b>
	andard Deviation	n Sample Size		Sta	ndard Devia	tion Sample Size
* 1 6 6.5 cm Plant Height (to tassel tip)	14.9	30	1 9	2. 7	18.6	30
* 0 5 9.4 cm Ear Height (to base of top ear node)	6.8	30	0 7	6.8	14.0	30
0 1 3.0 cm Length of Top Ear Internode	1.1	20	0 1	4. 4	1.8	30
Average Number of Tillers						
* 2. 0 Average Number of Ears per Stalk	0.000	15	0 0	1. 0	0.0	30
1 Anthocyanin of Brace Roots: 1=Absent 2=Fain	t 3=Moderate 4=	-Dark	4			-
Application Variety Data	Pag	ge 1 .	Standa	rd Inbre	d Data	

Application Variety Data	Page	2	Standard I	nbred Data	
5. LEAF:	Standard Deviation	Sample Size		Standard Deviation	on Sample Siz
* 0 0 8.5 cm Width of Ear Node Leaf	0.7	30	0 0 9.	0 0.7	30
* 0 6 7.6 cm Length of Ear Node Leaf	4.9	30	0 6 2.	4 6.4	30
* 5. 2 Number of leaves above top ear	0.4	30	5. 6	0.4	15
3 5. 0 degrees Leaf Angle {measure from 2nd leaf above ear a	3.2 anthesis to stalk abo	20 ve leaf)	3 5.8	7.8	30
* 0 2 Leaf Color (Munsell code 5 GY 4/8)			0 2 (Mun	sell code 5 GY 5/1	10)
1 Leaf Sheath Pubescence (Rate on scal	le from 1=none to 9=pea	ch fuzz)	2		
5 Marginal Waves (Rate on scale from	1=none to 9=many)		5		
4 Longitudinal Creases (Rate on scale	e from 1=none to 9=many	)	8		
6. TASSEL:	Standard Deviation	Sample Size		Standard Deviation	on Sample Siz
* 0 7. 1 Number of Primary Lateral Branches	1.6	30	7. 1	1.1	30
2 0. 2 Branch Angle from Central Spike	3.7	30	3 4.6	5.2	30
* 3 1.8 cm Tassel Length (from top leaf collar to tassel tip)	1.9	30	4 7.4	4.9	30
5. 1 Pollen Shed (Rate on scale from 0=male s	sterile to 9=heavy shed	)	4.5		
0 7 Anther Color (Munsell code 2.5 Y 8/10)			0 5 (Mun	sell code 2.5 GY 8	3/6)
0 2 Glume Color (Munsell code 5 GY 4/8)			0 2 (Mun	sell code 5 GY 4/8	3)
1 Bar Glumes (Glume Bands): 1=Absent 2=Pre	sent		1		
7a. EAR (Unhusked Data):					
* 0 7 Silk Color (3 days after emergence) (Munse	ll code 2.5 Y 8/10)		0 5 (Mun:	sell code 2.5 GY 8	3/6)
0 2 Fresh Husk Color (25 days after 50% silkin	g) (Munsell code 5 GY	1/8)	0 2 (Mun:	sell code 5 GY 4/8	3)
2 1 Dry Husk Color (65 days after 50% Silking)	(Munsell code 2.5 Y 8,	<sup>7</sup> 4)	2 1 (Mun:	sell code 2.5 Y 8,	(4)
* 1 Position of Ear at Dry Husk Stage: 1=Uprig		ent	1		
7 Husk Tightness (Rate on scale from 1=very			8		
2 Husk Extension (at harvest): 1=Short (ears 3=Long (8-10 cm beyond ear	exposed) 2=Medium (<8 tip) 4=Very Long (>10	cm) cm)	3		
7b. EAR (Husked Ear Data):	Standard Deviation	Sample Size		Standard Deviation	on Sample Siz
* 1 3.1 cm Ear Length	1.5	20	1 8.5	0.7	30
* 4 0.1 mm Ear Diameter at mid-point	0.8	20	3 8.0	1.6	30
8 1. 3 gm Ear Weight	3.9	20	1 0 2. 2	2.3	30
* 1 4 Number of Kernel Rows	0.6	20	1 2	0.7	15
2 Kernel Rows: 1=Indistinct 2=Distinct			2		
1 Row Alignment: 1=Straight 2=Slightly	Curved 3=Spiral		1		
_ 5. 1 cm Shank Length	0.2	20	0 9.8	1.9	15
2 Ear Taper: 1=Slight 2=Average 3=Extre	me		2		
pplication Variety Data			Standard In	bred Data	

1	Application Variety Data	Page	3	Standard Inbred Data
0 8.5 mm Macroel Width 0.4 20 0 9.0 0.5 15 0 3.7 mm Marrorl Dirkcheas 0.1 20 0 4.9 0.3 15 2 7.4 % Nound Marroels (Shape Gasde) 2.2 5039 3 0.5 3.3 5009 1 Alestrone Color (Manuell code Lighter than 2.5 Y 9/2) 1 1 9 Alestrone Color (Manuell code Lighter than 2.5 Y 9/2) 2 0 7 Ward Encospers Type: Lebect (will 2-Bestra Sheet tele2) 3-Bestral Starch 4-Min Arylose Gitron Darksy Starch 6-Min Nounder The Manuell code 2.5 Y 8/10) 0 3 Encospers Type: Lebect (will 2-Bestra Sheet tele2) 3-Bestral Starch 4-Min Nounder Color (Manuell code 2.5 Y 8/10) 0 3 Encospers Type: Lebect (will 2-Bestral Sheet tele2) 3-Bestral Sheet (will 2-Bestral Sheet)) 15 (1 to 18 Bestral Sheet (will 1-Bestral Sheet)) 15 Bestral Sheet (will 1-Bestral Sheet (will 1-Bestral Sheet (will 1-Bestral Sheet (will 1-Bestral Sheet)) 15 Bestral Sheet (will 1-Bestral Sheet) 15 Bestral Sheet (will 1-Bestral Sh	8. KERNEL (Dried): Star	ndard Deviation	Sample Size	Standard Deviation Sample Size
0 3. 7 mm Kernel Thickness 0.1 20 0 4.9 0.3 15 2 7. 4 8 Round Kernels (Shape Grade) 2.2 5.00q 3 0.5 2.3 5.00q 1 Aleurone Color Pattern: 1-Bonzygous 2-Beyrequing 1) 1 9 Aleurone Color (Munsell code Lighter than 2.5 y 9/2) 0 7 Mard Endospern Color (Munsell code Lighter than 2.5 y 9/2) 0 7 Mard Endospern Color (Munsell code 2.5 y 8/10) 0 3 Endospum Types: 1-Sweet [yu]) 2-Entra Sweet [sh2] 3-Bormal Starch dillor High Mayloos Starch 3-days Starch dedicts Fruiton 7-High Lymicus 3 2.0 gm Weight per 100 Kernels (inslight of 10-Other S-Duper Sweet [sp]) 3-Bormal Starch dedicts (inslight of 10-Other S-Duper Sweet [sp]) 4 1300 seeds 3 2.0 gm Weight per 100 Kernels (inslight sample) 2.8 1300 seeds 3 2.0 gm Weight per 100 Kernels (inslight sample) 2.8 1300 seeds 4 2 2.4 mm Cob Diameter at mid-point 1.3 20 2 2.1 0.8 15 1 4 COB Color (Munsell code 5 R 3/8) 10. DIEMER MASUTANCE, Raper from 1 insure subsupptible) to 9 (most resistant); 10-West Diameter from 1 insure subsupptible) to 9 (most resistant); 10-West Diameter from 1 insure subsupptible) to 9 (most resistant); 10-West Diameter (Collectrichius grammin(cols)	1 0.1 mm Kernel Length	0.4	20	1 1. 4 0.4 15
2 7. 4 % Round Kermala (Shape Grade) 2.2 500g 3 0.5 3.3 500g 1 Aleutrona Color Pattern: 1-memozygous 2-Segragating 1 1 8 Aleutrona Color Pattern: 1-memozygous 2-Segragating 2 7 1 9 Aleutrona Color (Munsell code Lighter than 2.5 * 9/2) 2 7 Faraf Mchaagement Color (Munsell code 1:9) 10 10 10 10 10 10 10 10 10 10 10 10 10	0 8.5 mm Kernel Width	0.4	20	0 9. 0 0.5 15
1   1   9   Naurone Color (Nameel Code Lighter than 2.5 \( \times \) 9/2	0 3.7 mm Kernel Thickness	0.1	20	0 4. 9 0.3 15
(*) 1 9 Aleurone Color (Munsell code Lighter than 2.5 Y 9/2)  0 7 Sard Endospeer Color (Munsell code 2.5 Y 8/10)  0 3 Rodospeer Types Lebent (sul) Scheres Sweet (sul) 3-Morral Starch 6-High Amylose Exacth Sweety Starch (edith Protein 7-High Lysinu 8-Super Sweet lee 9-High Oil 10-Ochor 9. COM:  3 2.8 gm Weight per 100 Kernels (unsized sample) 2.8 1350 seeds 9. COM: 4 2 2.4 mm Cob Diameter at mid-point 1.3 20 1 4 (Munsell code 5 R 3/8) 1 4 (Cob Color (Munsell code 5 R 3/8) 1 5 1 4 (Munsell code 5 R 3/8) 1 6. DISEASE RESISTANCE (Rute from 1 (most susceptible) Lo 9 (most resistant); 1	2 7. 4 % Round Kernels (Shape Grade)	2.2	500g	3 0. 5 3.3 500g
0 7 Mard Endosperm Color (Numsell code 2.5 Y 8/10)  0 3 Rodospurm Type: 1=6weet (sul) 2-mattra Sweet (sal) 3=6wormal Starch 4=11gh Amylose 6=Super Sweet (se) 9=8igh Oil 10=0thor 7=ligh Lysine 7=ligh Lysine 7=Super Sweet (se) 9=8igh Oil 10=0thor 7=ligh Lysine 8=Super Sweet (se) 9=8igh Oil 10=0thor 7=ligh Lysine 8=Super Sweet (se) 9=8igh Oil 10=0thor 7=ligh Lysine 8=Super Sweet (se) 9=8igh Oil 10=0thor 8=Super Sweet Sweet Sweet (se) 9=8igh Oil 10=0thor 8=Super Sweet Sw	1 Aleurone Color Pattern: 1=Homozygous 2=Segrega	ating		1
### A BROOKS TRUE TYPES TO STATE SHEET (BIL) 2-BOUTER SHEET (BIL) 3-BOUTER STATES A ## A BILD ABYLOUS STATES SHEET	(*) 1 9 Aleurone Color (Munsell code Lighter than 2.5	Y 9/2)		1 9 (Munsell code Lighter Than 2.5 Y 9/2)
### Section Amylose Starch S-Waxy Starch de-High Protein 7-High Lysine  ### Section 7	* 0 7 Hard Endosperm Color (Munsell code 2.5 Y 8/10)	ı		0 7 (Munsell code 2.5 Y 8/10)
9. COB: Standard Deviation Sample Size 2 2. 4 mm Cob Diameter at mid-point 1.3 20 2 2. 1 0.8 15  1 4 Cob Color (Munsell code 5 R 3/8) 10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic): A. Leaf Blights, Wilts, and Local Infection Diseases 7 Anthracmose Leaf Slight (Colletorichum graminicols) Common Rust (Pucchaia sorghi)	4⇒H1gh Amylose Starch 5=Waxy Starch 6=High Pi	sh2) 3=Normal Sta rotein 7=High Lys	rch ine	0 3
2 2 . 4 mm Cob Diameter at mid-point 1.3 20 2 2 .1 0.8 15 1 4 Cob Color (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 1 5 1 4 Cob Color (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 1 1 4 (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 1 1 4 (Munsell code 5 R 3/8) 1 5 (Munsell code 5 R 3/8) 1 4 (Munsell code 5 R 3/8) 1 1 1 4 (Munsell code 5 R 3/8) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2.8 gm Weight per 100 Kernels (unsized sample)	2.8	1350 seeds	2 8. 9 4.1 1200 seeds
1 4 Cob Color (Munsell code 5 R 3/8)  10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); Leave blank if not tested) leave Race or Strain Options blank if polygenic):  A. Leaf Blights, Wilts, and Local Infection Diseases  7 Anthracnose Leaf Blight (Colletotrichum graminicola) Common Rust (Puccinia sorymi) Common Rust (Munsell a seae) 7 Eyespot (Kabatiella seae) 7 Eyespot (Kabatiella seae) 7 Northern Leaf Blight (Colletotrichum graminicola) 10 Sustem Leaf Spot (Gercospora zeae-maydis) 11 Sustem Leaf Spot (Gercospora zeae-maydis) 12 Southern Leaf Blight (Free Spotal Comm) Race 2 13 Southern Leaf Blight (Free Spotal Race 0) 14 Suthern Rust (Puccinia polysora) 15 Stewart's Wilt (Clavisoria maydis) Race 0 16 Suthern Rust (Funcia polysora) 17 Septemic Diseases 18 Systemic Diseases 19 Systemic Diseases 10 Corn Lethal Necrosis (MCMV and MUNV) 19 Haize Chlorotic Dwarf Virus (MCMV) 10 Maize Chlorotic Dwarf Virus (MCMV) 11 Maize Chlorotic Dwarf Virus (MCMV) 12 Maize Chlorotic Dwarf Virus (MCMV) 13 Sorghum Downy Mildew of Corn (Peronaselerospora sorghi) 14 (Munsell code 5 R 3/8) 15 Other (Specify) 16 Sar Anthracnose Stalk Rot (Colletotrichum graminicola) 15 Diplodia Stalk Rot (Stenocarpella maydis) 16 Suparium Stalk Rot (Venserium moniliforme) 17 Chen (Specify) 18 Sar and Kernel Rot (Appergillus flavus) 16 Diplodia Sar Rot (Stenocarpella maydis) 17 Suparium Sar and Kernel Rot (Appergillus flavus) 18 Specifylus Ear and Kernel Rot (Appergillus flavus) 19 Diplodia Sar Rot (Stenocarpella maydis) 19 Cibberella Ear Rot (Gibberella zeae) 19 Other (Specify) 20 Chen (Specify) 21 Common Rot (Fusarium moniliforme) 22 Common Rot (Fusarium moniliforme) 23 Common Rot (Fusarium moniliforme) 24 Common Rot (Fusarium moniliforme) 25 Common Rot (Fusarium moniliforme) 26 Common Rot (Fusarium moniliforme) 27 Common Rot (Fusarium moniliforme) 28 Common Rot (Fusarium moniliforme) 29 Common Rot (Fusarium moniliforme) 20 Common Rot (Fusarium moniliforme) 20 Common Rot (Fusarium moniliforme) 20 Common Rot (Fusarium monilif	9. COB: Star	dard Deviation	Sample Size	Standard Deviation Sample Size
10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant);	* 2 2.4 mm Cob Diameter at mid-point	1.3	20	2 2. 1 0.8 15
A. Leaf Blights, Wilts, and Local Infection Diseases 7 Anthracnose Leaf Blight (Colletotrichum graminicola) Common Rust (Puccinia sorghi) Common Rust (Puccinia sorghi) Common Rust (Puccinia sorghi) Common Rust (Vuccinia sorghi) Common Rust (Vuccinia sorghi) Common Rust (Puccinia sorghi) Common Rust (Vuccinia sorghi) Common Rust (Puccinia sorghi) Common Rust (Vuccinia sorghi) Common Rust (Puccinia sorghi) Goss's Whit (Clavivacter michiganense spp. nebraskense) 6 3 Gray Leaf Spot (Cercospora zeae-maydis) Heninithosporium Leaf Spot (Bipolaris zeicola) Race 8 Race 2 7 Northern Leaf Blight (Exserohilum turcicum) Race 2 5 Race 2 7 Northern Leaf Blight (Exserohilum turcicum) Race 2 Southern Rust (Puccinia polysora) Stevart's Wilt (Ervinia stewartii) Other (Specify)  B. Systemic Diseases Corn Lethal Necrosis (MCNV and MDMV) Head Smut (Sphacelotheca reiliana) Maize Chlorotic Dearf Virus (MCDV) Maize Darif Mosalc Virus (MCDV) Maize Chlorotic Dearf Virus (MCDV) Maize Darif Mosalc Virus (MCDV) Maize Chlorotic Mottle Virus (MCDV) Maize Chlorotic Maize Maize M	1 4 Cob Color (Munsell code 5 R 3/8)			1 4 (Munsell code 5 R 3/8)
Fusarium Stalk Rot (Fusarium moniliforme) Gibberella Stalk Rot (Gibberella zeae) Other (Specify)  D. Ear and Kernel Rots  Aspergillus Ear and Kernel Rot (Aspergillus flavus) Diplodia Ear Rot (Stenocarpella maydis) Fusarium Ear and Kernel Rot (Fusarium moniliforme) Gibberella Ear Rot (Gibberella zeae) Other (Specify)	7 Anthracnose Leaf Blight (Colletotrichum graminicola) Common Rust (Puccinia sorghi) Common Smut (Ustilago maydis) 7 Eyespot (Kabatiella zeae) Goss's Wilt (Clavibacter michiganense spp. nebraskense) 3 Gray Leaf Spot (Cercospora zeae-maydis) Helminthosporium Leaf Spot (Bipolaris zeicola) Race 7 Northern Leaf Blight (Exserohilum turcicum) Race 2 7 Southern Leaf Blight (Bipolaris maydis) Race 0 Southern Rust (Puccinia polysora) Stewart's Wilt (Erwinia stewartii) Other (Specify)  B. Systemic Diseases  Corn Lethal Necrosis (MCMV and MDMV) Head Smut (Sphacelotheca reiliana) Maize Chlorotic Dwarf Virus (MCDV) Maize Chlorotic Mottle Virus (MCMV) Maize Dwarf Mosaic Virus (MDMV) Strain Sorghum Downy Mildew of Corn (Peronosclerospora sorghi) Other (Specify)  C. Stalk Rots  Anthracnose Stalk Rot (Colletotrichum graminicola) Diplodia Stalk Rot (Stenocarpella maydis)			7 6 2 8 Race 2 5 Race 2 3 Race 0
Application Variety Data Standard Inbred Data	Fusarium Stalk Rot (Fusarium moniliforme) Gibberella Stalk Rot (Gibberella zeae) Other (Specify)  D. Ear and Kernel Rots  Aspergillus Ear and Kernel Rot (Aspergillus flavus) Diplodia Ear Rot (Stenocarpella maydis) Fusarium Ear and Kernel Rot (Fusarium moniliforme) Gibberella Ear Rot (Gibberella zeae)			
	Application Variety Data			Standard Inbred Data

Banks Grass Mite (Oligonychus pratensis) Corn Earworm (Helicoverpa zea) Leaf-Feeding :	most resista tandard eviation	Sample Size	· · · · · · - · · · · · · ·	Standard Deviation	Sample Size
Banks Grass Mite (Oligonychus pratensis) Corn Earworm (Helicoverpa zea) Leaf-Feeding Silk Feeding: mg larval wt Ear Damage Corn Leaf Aphid (Rhopalosiphum maidis) Corn Sap Beetle (Carpophilus dimidiatus) European Corn Borer (Ostrinia nubilalis) 1st Generation (Typically Whorl Leaf Feeding) 2nd Generation (Typically Leaf Sheath-Collar Feeding) Stalk Tunneling: cm tunneled/plant Fall Armyworm (Spodoptera frugiperda) Leaf-Feeding Silk-Feeding: mg larval wt Maize Weevil (Sitophilus zeamaize)					
Silk Feeding:  mg larval wt.  Ear Damage  Corn Leaf Aphid (Rhopalosiphum maidis)  Corn Sap Beetle (Carpophilus dimidiatus)  European Corn Borer (Ostrinia nubilalis)  1st Generation (Typically Whorl Leaf Feeding)  2nd Generation (Typically Leaf Sheath-Collar Feeding)  Stalk Tunneling:  cm tunneled/plant  Fall Armyworm (Spodoptera frugiperda)  Leaf-Feeding  Silk-Feeding:  mg larval wt.  Maize Weevil (Sitophilus zeamaize)			·		
Ear Damage Corn Leaf Aphid (Rhopalosiphum maidis) Corn Sap Beetle (Carpophilus dimidiatus) European Corn Borer (Ostrinia nubilalis) 1st Generation (Typically Whorl Leaf Feeding) 2nd Generation (Typically Leaf Sheath-Collar Feeding) Stalk Tunneling: cm tunneled/plant Fall Armyworm (Spodoptera frugiperda) Leaf-Feeding Silk-Feeding: mg larval wt. Maize Weevil (Sitophilus zeamaize)			· -		
European Corn Borer (Ostrinia nubilalis)  1st Generation (Typically Whorl Leaf Feeding)  2nd Generation (Typically Leaf Sheath-Collar Feeding)  Stalk Tunneling:  cm tunneled/plant  Fall Armyworm (Spodoptera frugiperda)  Leaf-Feeding  Silk-Feeding:  mg larval wt.  Maize Weevil (Sitophilus zeamaize)			- - - -		
2nd Generation (Typically Leaf Sheath-Collar Feeding) Stalk Tunneling: cm tunneled/plant Fall Armyworm (Spodoptera frugiperda) Leaf-Feeding Silk-Feeding: mg larval wt. Maize Weevil (Sitophilus zeamaize)		<del></del>			
Leaf-Feeding Silk-Feeding:mg larval wtMaize Weevil (Sitophilus zeamaize)					
mg larval wtMaize Weevil (Sitophilus zeamaize)			1		
Manakhanan Dankaranan (Diaharat) a ta ta ta					
Northern Rootworm (Diabrotica barberi) Southern Rootworm (Diabrotica undecimpunctata) Southwestern Corn Borer (Diatraea grandiosella)					
Leaf Feeding Stalk Tunneling:cm tunneled/plant					
Two-spotted Spider Mite (Tetranychus urticae) Western Rootworm (Diabrotica virgifera virgifera) Other (Specify)			<u>-</u>		
. AGRONOMIC TRAITS:					<del>- ,</del>
7 Stay Green (at 65 days after anthesis) (Rate on to 9=excellent.)	a scale fro	m 1=worst	2		
0 0.0% Dropped Ears (at 65 days after anthesis)			0 0.0		
0 0.0 % Pre-anthesis Brittle Snapping			0 0.0		
0 0.0 % Pre-anthesis Root Lodging			0 0.0		
0 0.0% Post-anthesis Root Lodging (at 65 days after a	anthesis)		0 0.0		
Kg/ha Yield of Inbred Per Se (at 12-13% grain m	moisture)				

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COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit

Heat Unit Calculation: GDU = Daily Max Temp ( $<=86^{\circ}F$ ) + Daily Min Temp ( $>=50^{\circ}F$ ) -  $50^{\circ}F$ 

Supplemental data provided for number of tillers, pollen shed, ear weight, % round kernels and weight per 100 kernels from 2006 production parent test data and 2006 seed inventory data. Supplemental trait data obtained from 2005 field trials.

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Monsanto Technology L.L.C.		1113752		
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800 N. Lindbergh Blvd.	` '	(0.0)100 0117		
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11. Additional explanation on ownership (Trace ownership from original	ol brando de de comenta de la comenta de			
11. Additional explanation on ownership (Trace ownership from origina	al breeder to current owner. Use the re	verse for extra space if needed):		
Corn Variety I113752 was originated and develo	oped by a breeder employed by	Monsanto		
rights to any invention, discovery or developmer No rights to such invention, discovery or develop	37 Dro Decidood to Magazzie T	1 1		
o was even invention, discovery of develop	ornent are retained by the breed	ler.		
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2. If the rights to the variety are owned by the company which employe	d the original breeder(s), the company	must he U.S. hased, owned by		
nationals of a UPOV member country, or owned by nationals of a co- genus and species.	untry which affords similar protection to	nationals of the U.S. for the same		
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